

ROSALY M. C. LOPES

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JPL websites: <http://science.jpl.nasa.gov/people/Lopes/>

<https://women.jpl.nasa.gov/#episodes-lopes-1>

Publications (in Plubons): <https://publons.com/researcher/2299330/rosaly-mc-lopes/>

NATIONALITIES: U.S.A., U.K., and Brazil

EDUCATION:

Ph.D.: Planetary Science (Board of Physics), 1986, University College (University of London, UK).
"Comparative Studies of Volcanic Features on Earth and Mars".

B.Sc. (Hons Lon): Astronomy, 1978, University College (University of London, UK).

CURRENT POSITION:

Directorate Chief Scientist, Planetary Science Directorate, JPL

Other current roles:

Principal Investigator, NASA's Astrobiology Institute

Senior Research Scientist, JPL

Adjunct Professor, Astronomy Department, Cornell University

Co-Director, NASA Astrobiology Summer School, Santander, Spain

Principal Investigator, Cassini Data Analysis Program (2 projects)

Co-Investigator, JANUS camera on the JUICE mission to Jupiter

Co-Investigator, PDART and CDAP funded proposals.

Main current responsibilities:

Scientific leadership of the Planetary Science Directorate at JPL

PI of the NASA Astrobiology Institute Proposal "Habitability of Hydrocarbon Worlds: Titan and Beyond" (2018-2023) to study the potential for life to have evolved on Saturn's moon Titan

Main fields of expertise: Planetary geology and volcanology, with particular expertise on Io and Titan and analysis of data from flight projects (Galileo, Cassini, New Horizons, Juno). Current research topics include investigation of Titan's geology and putative cryovolcanic features and of how Io's volcanic activity can be related to interior models.

Approach to research: Use of remote sensing data collected from spacecraft to further develop theoretical models of surface processes, in close collaboration with instrument investigations.

LEADERSHIP EXPERIENCE:

Directorate Scientist, Planetary Science Directorate, JPL
Editor-in-Chief, planetary science journal *Icarus*, Elsevier (2017-2020)
President, AGU Planetary Section (2019-2020)
Chair, JPL's Senior Research Scientist Council (2019-2020)
Principal Investigator, NASA Astrobiology Institute, 16 Co-Is (2018-present)
Manager, Planetary Science Section at JPL (~100 people, including ~20 postdocs), 2013-2018.
Deputy Manager 2011-2013, Group Supervisor 2005-2011.
Chair, Division for Planetary Sciences of the American Astronomical Society, 2012-2013
Chair, International Academy of Astronautics Commission 1 on Space Physical Sciences, 2019-2020
Chair, Outer Solar System Task Group (IAU Working Group for Planetary System Nomenclature), 2006-present

COMMITTEES AND OTHER EXPERIENCE:

Current:

Member of Steering Committee, Keck Institute for Space Studies (2021-present)

Past President, AGU Planetary Section (2020-2022)

Member, U.S. National Academies ad hoc committee "Building a Foundation for Assessing the Health and Vitality of the Science Mission Directorate's Research Communities." (2021)

Vice Chair, COSPAR Commission B: Planetary Science (2021-2025)

Member, External Scientific Advisory Board for the Center for Astrobiology, Madrid, Spain (2020-present)

Panel Member, European Research Council Consolidator Grants

Member, Space Studies Board (and Executive Committee), the National Academies (2016-present)

Chair, Commission 1 (Physical Sciences), International Academy of Astronautics (2020-2022)

Member, JPL Student Programs Advisory Council (2013-present)

Member, Advisory Council, The Planetary Society (2007-present)

Member, Editorial Board, Praxis-Springer Publishing Company (2004-present)

Research Advisor for NASA's postdoctoral Program (1994-present, advised four postdocs to date).

Harlow Shapley Visiting Lecturer, American Astronomical Society (2006-present).

Speaker for the U.S. Speaker Program, sponsored by The Department of State's Bureau of Educational and Cultural Affairs (2019-present)

Previous:

President, AGU Planetary Section (2018-2020)

Chair (2019-2020) and Member (2018-2019), Senior Research Scientist Council, JPL

Nominating Committee member (2014-2020), COSPAR (Committee on Space Research)

Member, the National Academies ad hoc committee to review the findings of the Planetary Protection Independent Review Board (2019-2020)

Co-organizer, Titan After Cassini-Huygens Workshop, ESAC, Spain, September 2019

President-Elect, AGU Planetary Section (2017-2018)

Vice-Chair, Commission 1 (Physical Sciences), International Academy of Astronautics (2017-2019)

Secretary, International Academy of Astronautics Commission 1, Space Physical Sciences (2015-2017)

Deputy Program Chair, COSPAR General Assembly 2018 (2014-2018)

Guest Investigator, INPE, Brazil (2012-2016)

Member, Program Committee, AGU (2015-2016)

Member, Program Committee, joint DPS-EPSC meeting in Pasadena, California (2016)

Co- Convener, Io: Interaction between Volcanic Activity and Jupiter's Magnetosphere: a Workshop at INPE, Sao Paulo State, Brazil, April 4-8, 2016

Project Scientist, Kuiper Discovery proposal, 2015

Member, Perlman Award Committee, AGU (2010-2013)

Past Chair and Chair of Prize Committee, Division for Planetary Sciences of the American Astronomical Society (October 2013-October 2014)

Co-organizer, 48th ESLAB Symposium: New Insights into Volcanism across the Solar System, June 2014, ESTEC, The Netherlands.

Speaker, Outer Planets Colloquium Series, NASA/JPL, 2009-2013.

Lecturer, Ciclo de Cursos Especiais, Observatorio Nacional, Rio, Brazil (2013 and 2015)

Member, Senior Research Scientist Council, JPL (2010-2013)

Member, Visiting Committee for 7-year review, Florida Space Institute (2013).

Vice-Chair, Division for Planetary Sciences of the American Astronomical Society (October 2011-October 2012)

Board Member, The National Academies Committee on Planetary Protection Standards for Icy Bodies in the Outer Solar System (2010-2012)

Member (elected), Division for Planetary Sciences, AAS, Committee (2007-2010)

Associate Graduate Faculty, University of Nevada Las Vegas, 2009-2010

Member, Scientific Organizing Committee, Division for Planetary Sciences meeting, 2010.

Co-Lead, Cassini Satellites Orbiter Science Team (2003-2010)

Guest Editor, Icarus, Cassini Icy Satellites, vol. 193, 2008

Collaborator on New Horizons mission for studies of Io during the Jupiter flyby in 2007.

Member, AAAS Annual Meeting Program Committee (representing planetary sciences, astronomy, education, public outreach, and diversity), 2007-2010

Member (elected), American Astronomical Society's Astronomy Education Board, 2006-2009

Board member, National Academy of Sciences/National Research Council's Space Studies Board: Committee to study the next announcement of opportunity (AO) for NASA's New Frontiers missions, 2007-2008.

Member, NASA-ESA Titan Saturn System Mission, Science Definition Team Study (published January 2009)

Member, NASA Titan Explorer Flagship Mission Science Definition Team (2007)

Chair, Nominating Committee, American Astronomical Society's Division for Planetary Sciences, 2005-2006 (Member 2003-2005).

Member, DPS 2006 Program Committee

Member, Program Committee, Demeter International Symposium, Toulouse, 14-16 June, 2006.

Advisor to Local Organizing Committee, American Astronomical Society's Division for Planetary Sciences Annual Meeting, 2006.

Member, Subcommittee on Diversity, American Geophysical Union, 2001-2003

Member, Steering Committee of the Commission for Large-Volume Basaltic Provinces, International

Association of Volcanology and Chemistry of the Earth's Interior, 2000-2004.

Member, Committee for Minorities and Women in Geosciences, Geological Society of America (1996-1999).

Co-chair of Local Organizing Committee, American Astronomical Society Division for Planetary Sciences 2000 meeting

Chief organizer for Cassini-Huygens session at the American Association for the Advancement of Science meeting, Washington, DC, February 2005.

Co-organizer, United Nations/European Space Agency workshops on Basic Space Science, 1992 (San Jose, Costa Rica) and 1994 (Cairo, Egypt).

Convener of numerous conference sessions, including American Geophysical Union (2000, 2002, 2005, 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014), International Association of Geomorphologists (2011), American Association for the Advancement of Science (2005), International Association of Volcanology and Chemistry of the Earth's Interior (2008), AGU Western Pacific Geophysics Meeting (2008), International Geological Congress (2000), European Planetary Science Congress (2013), SBIR, Brazil (2013), AOGS (2019).

Member, JPL Director's Advisory Committee for Women, 1992-1994.

CAREER HISTORY:

January 2021-present	Chief Scientist, Planetary Science Directorate, JPL
February 2009- present	Senior Research Scientist, JPL
March 2013-January 2018	Manager, Planetary Science Section
July 2002-March 2019	Investigation Scientist for the Cassini Titan Radar Mapper instrument on the Cassini Project.
August 2011-March 2013	Deputy Manager, Planetary Science Section, JPL
March 2005- July 2011	Group Supervisor, Geophysics and Planetary Geosciences, JPL
Sept. 2004-February 2009	Principal Scientist, Earth and Space Sciences Division, JPL
Sept. 2002-Sept. 2004	Research Scientist, Senior A, Earth and Space Sciences Division, JPL.
Sept. 1995-2002	Research Scientist, Earth and Space Sciences Division, JPL.
July 1991-Sept.1995	Scientist, Earth and Space Sciences Division, JPL.
July 1989-July 1991	National Research Council Resident Research Associate, JPL.

Feb. 1989-July 1989 Visiting Researcher, Osservatorio Vesuviano, Naples, Italy.

March 1988-Jan. 1989 Acting Curator of Astronomy and Acting Head of the Astronomy Section, Old Royal Observatory, Greenwich, U.K.

June 1985-March 1988 Curator of Modern Astronomy and Deputy Head of Astronomy Section, Old Royal Observatory, Greenwich, U.K.

Oct. 1978-Dec. 1984 Teaching and Research Assistant: University College London; teaching Planetary Geology, Observational Astronomy and Introductory Astronomy courses.

AWARDS AND HONORS:

From NASA:

Exceptional Public Service Award, 2019
Exceptional Service Medal, 2007

From the American Geophysical Union

Ambassador award and AGU Fellow, 2018

From the Adler Planetarium, Chicago

2018 Women in Space Science Award

From the National Science Foundation:

Antarctica Service Medal, 2017

From the International Academy of Astronautics

Full Member, elected 2017 (Corresponding Member elected 2015)

From the International Astronomical Union:

Asteroid (22454) Rosalyopes (1996 VU17 Discovered 1996 Nov. 6 by Spacewatch at Kitt Peak), 2016

From the Geological Society of America

Fellow, elected 2015

From International Students House, London

Notable Alumni, one of "50 Notable Alumni in 50 Years", 2015

From the Explorers Club:

Lowell Thomas Medal, 2014

From Wings WorldQuest:

Women of Discovery Award, Air and Space, 2009

From city of Juarez Tavora, Brazil:

Honorary citizen, 2009

From the Girl Scouts of America:

WINGS (Women Inspiring Next Generations) Award, 2007

From City of Bezerros, Brazil:

Experimental rocket launch site for high school and college students named “Dr. Rosaly Lopes”, 2007

From the American Association for the Advancement of Science:

AAAS Fellow, elected 2006

From Women at Work and JPL’s Diversity and Inclusion Committee:

Women at Work Medal of Excellence, 2006

From the American Astronomical Society, Division for Planetary Sciences:

Carl Sagan Medal, 2005

From the Guinness Book of World Records (2006 edition):

Discoverer of the greatest number of active volcanoes

From Grove of Hope (Education charitable organization):

Angel Award (for outreach efforts in Morocco in 2005)

From GEMS Television, Miami:

GEMS Woman of the Year in Science and Technology, 1997

From the Comision Feminil Mexicana Nacional:

Latinas in Science Award, 1990

From the Jet Propulsion Laboratory:

Explorer Award, August 2018

Team Bonus Award, March 2017

Voyager Bonus Award, 2016

Mariner Bonus Award, 2014

Mariner Bonus Award, 2013

Mariner Bonus Award, 2012

Team Bonus Award, Flagship Study Scientists, 2008

Team Bonus Award, Cassini Science Team, 2005

SPOT Award, Discovery Core Review Panel, 2004

Bonus Award, Cassini Science Planning Tour Integration Team, 2004

Bonus Award for Outstanding Accomplishment, 2002

Exceptional Technical Excellence, Galileo Science Planning and Operations Team, 2002

Bonus Award for Outstanding Accomplishment, 2001

Bonus Award for Outstanding Accomplishment, 1999

NASA Group Achievement Awards:

Group Achievement Award, Galileo Gaspra Encounter Team, 1993

Group Achievement Award, Project Galileo Team, 1996

Group Achievement Award, Galileo Ida Encounter/Dactyl Discovery Team, 1995

Group Achievement Award, Galileo Orbital Operations Recovery Team, 1997
Group Achievement Award, Galileo Project Team, 1998
Group Achievement Award, Galileo Orbital Operations Recovery Team, 2000
Group Achievement Award, Galileo Millenium Mission Operations Team, 2003
Group Achievement Award, Cassini Flight Team, 2005
Group Achievement Award, MER 3rd and 4th Extended Mission Team, 2008
Group Achievement Award, Cassini RADAR Team, 2009
Group Achievement Award, Cassini Satellite Orbiter Science Team, 2009
Group Achievement Award, Cassini Saturn Target Working Team, 2009
Group Achievement Award, Cassini Titan Orbiter Science Team, 2009
Group Achievement Award, Cassini Saturn Tour Flight Team, 2009
Group Achievement Award, Cassini RADAR Science and Operations Team, 2018
Group Achievement Award, Cassini Science Planning and Sequence Team, August 2018

PROFESSIONAL SOCIETIES:

Fellow (awarded 2018), American Geophysical Union
Fellow (elected 2015), Geological Society of America
Fellow (elected, 2006), American Association for the Advancement of Science
Elected Member, International Academy of Astronautics
Member, International Astronomical Union
Member and Past Chair, American Astronomical Society, Division for Planetary Sciences
Member, International Association of Volcanology and Chemistry of the Earth's Interior
Fellow, Royal Geographical Society

SELECTED INVITED TALKS

Titan Through Time conference, Boulder, August 2021
50th Brazilian Congress of Geology, Palestra Magna, Brasilia (remote), June 2021
The Volcanic and Magmatic Studies Group Annual Meeting, Scotland, January 2019
Asia Oceania Geosciences Society, Honolulu, June 2018
European Planetary Science Congress, Riga, September 2017
International Association of Volcanology and Chemistry of the Earth's Interior, August 2017
Asia Oceania Geophysical Society meeting, Singapore, August 2017
European Planetary Science Congress, Nantes, France, September 2015
XV EANE (Encontro de Astronomia do Nordeste), Brazil, June 2015
William Bennett Munro Memorial Lecture Series: The Globe and Beyond, Caltech, May 2015.
X COLAGE (Tenth Latin American Conference on Space Geophysics), September 2014
European Planetary Science Conference (EPSC), September 2013.
Simposio Brasileiro de Sensoriamento Remoto, Iguassu Falls, Brazil, April 2013.
American Geophysical Union Fall Meeting, 2011, Planetary Radars session, December 2011.
Geological Society of America Annual Meeting, Special Session: Planetary Geology 30th Anniversary. Minneapolis, October 2011.
European Planetary Society Congress/Division for Planetary Sciences annual meeting, Nantes, France, October 2011
SPIE (International Society for Optics and Photonics) Conference, Instruments, Methods and Missions for Astrobiology Symposium, San Diego, August 2011
Geological Society of America Annual Meeting, November 2010
Collapse Calderas Workshop, La Reunion, France, October 2010.

Cities on Volcanoes 2010 meeting, Tenerife, Spain, June 3, 2010.
3rd International Reunion of Astronomy and Astronautics, Campos dos Goytacazes, Brazil, April 21, 2010.
IAU Symposium “Galileo’s Medicean Moons: 400th Anniversary Discovery”, Padova, January 7, 2010
European Geosciences Union meeting, Vienna, April 2009
AGU Fall Meeting, December 2008
Sykes Memorial lecture, University of British Columbia, September 2008
Panel member, Space Studies Board/National Academy of Sciences “Forging the Future of Space Sciences” colloquium, June 2008
European Geosciences Union meeting, Vienna, April 2008
American Geophysical Union Fall Meeting, San Francisco, December 2007.
Asia Oceania Geosciences Society, Bangkok, Thailand, August 2007 (2 invited talks)
American Geophysical Union, Spring meeting, Acapulco, Mexico, May 2007
American Association for the Advancement of Science, San Francisco, February 2007
American Geophysical Union Fall Meeting, San Francisco, December 2006.
Geological Society of America annual meeting, Pardee Keynote Symposium “Celebrating 25 Years of Solar System Exploration”, Philadelphia, November 2006.
Geological Society of America annual meeting, Pardee Keynote Symposium, “Geosciences and the Media”, Philadelphia, November 2006.
Asia Oceania Geosciences Society, Singapore, July 2006 (2 invited talks)
Geological Society of America annual meeting, Pardee Keynote Symposium, October 2005
European Geosciences Union meeting, Vienna, April 2005
Jupiter After Galileo and Cassini, A Euroconference about the Giant Planets, Lisbon, June 2002
American Geophysical Union Fall Meeting, San Francisco, December 2001
Jupiter: Planet, Satellite & Magnetosphere Conference, Boulder, Colorado, June 2001
American Geophysical Union Fall Meeting, San Francisco, December 2000
Division for Planetary Sciences of the American Astronomical Society, Pasadena, October 2000
International Geological Congress, Rio de Janeiro, August 2000

SELECTED SEMINARS

INPE (Instituto Nacional de Pesquisas Espaciais), Brazil, November 2021 (remote)
University of Brasilia, Brazil, October 2021 (remote)
University of Nevada, Las Vegas, February 2021(remote)
Eurasian National University, Astana, Kazakhstan (October 2019)
Fessenkov Astrophysical Institute, Almaty, Kazakhstan, October 2019
Satbayev University, Almaty, Kazakhstan, October 2019
Arizona State University, October 2019
University of Edinburgh, UK, January 2019
University of St Andrews, UK, January 2019
University of Texas at Austin, November 2018
University of California, Los Angeles, February 2018
University of Wisconsin, Stevens Point, May 2017
INPE, (Instituto Nacional de Pesquisas Espaciais), Brazil, September 2016
Indian Institute of Technology, Varanasi, India, March 2016
INPE (Instituto Nacional de Pesquisas Espaciais), Brazil, November 2015
Oklahoma University, October 2015
Observatorio Nacional, Rio de Janeiro, Closing Colloquium for the XX Ciclo de Cursos Especiais,

October 2015

2014 H.H. Woodward lecture, Beloit College, October 2014
INPE (Instituto Nacional de Pesquisas Espaciais), Brazil, September 2014
Optical Society of America, Minnesota Section, March 2014
INPE (Instituto Nacional de Pesquisas Espaciais), Brazil, August 2013
UCLA, iPLEX, May 2013
Buffalo State College, March 2013
Conference for Undergraduate Women in Physics, Caltech, January 2013
INPE (Instituto Nacional de Pesquisas Espaciais), Brazil, September 2012
National and Kapodistrian University of Athens, May 2012
Optical Society of America, Rochester Chapter, March 2012
Laboratory for Laser Energetics, University of Rochester, March 2012
University of Rochester, New York, March 2012
Universidade Federal de Brasilia, Brazil, November 2011
Instituto Federal de Educação, Ciência, e Tecnologia, Alagoas, Brazil, April 2011
Mount St. Antonio College, Walnut, California, April 2011
Centro de Astrobiologia, CSIC-INTA, Madrid, Spain, July 2009
MDSCC, Spain, July 2009
Politecnica Universidad de Madrid, July 2009
Arizona State University, September 2008
Citrus College, Glendora, California (Shapley Lecture), March 2008
Université Sidi Mohamed Ben Abdellah, Fes, Morocco, November 2007
George Washington Academy, Casablanca, Morocco, November 2007
Mauricio de Nassau University, Recife, Brazil, November 2007
Recife Catholic University, Recife, Brazil, November 2007
Mt. San Antonio College, Walnut, California, November 2006
University of Wyoming Anadarka Distinguished Lecturer Series, September 2006
University of Southern California, April 2006
University of California, Santa Cruz (IGPP), April 2006
University of Illinois, Walgreen Lecture, March 2006
University of Nevada, Las Vegas, October 2005
University of California at Los Angeles (IGPP), June 2005
Jet Propulsion Laboratory, Division 31, Science System Engineering Group March 2005
Cassini Tour Science Talk, JPL, December 2004
California State University, Los Angeles, May 2004
California State University, Northridge, April 2004
Foothill College, San Francisco, December 2003
University of Southern California, November 2002
University of Coimbra, Portugal, June 2002
University of California at Berkeley, April 2002
Jet Propulsion Laboratory, Division 32, July 2001
University of Arizona, February 2001
Sonoma State University, January 2000

SELECTED OUTREACH ACTIVITIES:

Public lectures: Several hundred (U.S., England, Scotland, Canada, Brazil, Italy, Portugal, Mexico, Morocco, Singapore, Bermuda, Spain, McMurdo Station Antarctica, Kazakhstan, and aboard several Princess cruise line ships).

Media: Numerous (hundreds) interviews in various countries (U.S., England, Brazil, Portugal, Mexico, France, Italy, Morocco, Canada, Bermuda, Spain, New Zealand, South Africa, China, Bulgaria, Singapore), including press (e.g. New York Times, Los Angeles Times), radio (e.g. BBC, NPR's Science Friday, The Space Show), and TV (e.g. Nightline, evening news, talk shows, documentaries).

Social Media: active profiles highlighting science outreach on Facebook, Twitter, and Instagram. Top science tweet of the day on October 16, 2012 (Titan science paper at DPS meeting).

TV Documentaries and shows (selected, mainly US):

Canada's CRAVE/ Bell Media: "X-Risk" (2020)
"Venus: Death of a Planet", "Venus: Warnings of a Doomed Planet", "Venus: Doing Science in Hell", (2020), Magellan documentaries (magellantv.com)
JPL's "Saving Galileo" (2019)
Amazon Prime/TVF "Clouds of Venus" (2019)
BBC-2 and Discovery Science "Volcanoes of the Solar System" (2017)
Brazil's "Planeta Extremo", Vanuatu Volcanoes (2015)
Weather Channel "How the Earth Works: Volcanoes" (2013)
PBS "Earth: The Inside Story" (2012)
History Channel "Secret Access: US Monuments" (2012)
History Channel "Ancient Aliens: Aliens and Mega-Disasters" (2012)
History Channel "Civilizations Lost" (2011)
NBC/The Weather Channel's "Caught on Camera" (volcano episode), 2011
National Geographic's "Storm Worlds: Alien Winds" (2010)
National Geographic's "Known Universe: Cosmic Fury" (2009)
Discovery Channels' "Galactic Storms" (2010)
Discovery Channel's "Sci-Trek: Volcanoes" (2009)
National Geographic's "Naked Science: Jupiter" (2009)
"Heads Up" Science Series, Knowledge TV, Canada, episode on New Horizons (2008)
History Channels' "Search for E.T.", in "The Universe" series (2007)
PBS "Wired Science" interview on volcanoes (2007)
Discovery Channel's "Titan: Rendezvous with Saturn's Moon" (updated version, 2007)
National Geographic Television's "Naked Science: Deadliest Planets" (2006)
History Channel's "Ask Mr. Know-It-All", pilot episode (as expert on volcanic dust), 2006
History Channel's "Inside the Volcano" (2006)
Discovery Channel's "Rewind 2006" (science stories of 2006, December 2006)
National Geographic Television's "Hollywood Science: Forces of Nature" (2006)
Nightline's "Galileo" (2003)
Discovery Channel's "Planet Storm" (2001)
Discovery Channel's "95 Worlds and Counting" (2001)

Films/software:

Europlanet Society Motivational Journeys: <https://www.europlanet-society.org/motivational-journeys-a-new-video-series-from-epcc/>
Science media advisor, post-production, "Pompeii" movie, 2014
JPL's "Journey to the Planets and Beyond", 2006
"2020 Vision" film, Institution of Engineering and Technology, UK, 2006

“*Starry Night*” Astronomy software, 2003
JPL/NASA’s film “*40 Years of Space Exploration*”, 2002
KCET Television in *Hispanic Heritage Month*, 1990-1992

Profiled in the following books:

“*Space: the definite visual catalog of the universe*”, Scholastic Books, Inc., 2018.
“*Dr E’s Super Stellar Solar System*” by B. Ehlmann with Jennifer Swanson, *National Geographic*, 2018
“*A World of Her Own: 24 Amazing Women Explorers and Adventurers*” by Michael Ehsohn Ross, Chicago Review Press, 2014.
“*Women of Space*” by Laura S. Woodmansee (Apogee Books, 2003)
“*Spotlight on Scientists*”, Curriculum Guide for Science Enrichment (grades 5-6) by J. Sinsel (Carson-Dellosa, 2006)
“*Extreme Science Jobs*” (Scholastic Books, 2004)
“*What do you Want to be?*” (The Sally Ride Science Club, 2004)
“*What do you Want to be? Explore Space Sciences*”, NASA/Sally Ride Science poster (2005), winner of the 2006 Distinguished Achievement Award from the Association of Educational Publishers (AEP).
“*The Inside Story of Jupiter*”, by B. Geiger, Sally Ride Science, 2006.
“*Focus on Earth Science*”, Cambridge Physics Outlet, middle school science book, 2006
“*Adventurous Dreams, Adventurous Lives: Today’s Explorers Recall the Youthful Dream Launching their Remarkable Lives*” by Jason Schoonover, Rocky Mountain Books, 2007
“*Lava Scientist: Careers on the edge of volcanoes*” (*Extreme Scientists series*), by Sara Latta (Enslow Publishing, 2009, new edition 2015)
“*Las Mujeres Mueven Montanas*” by Pepita Sandwich, Penguin Random House, 2019.

Selected Press conferences:

American Geophysical Union, December 2008
European Geosciences Union meeting, April 2008
Division for Planetary Sciences meeting, October 2007
American Geophysical Union Fall Meeting, December 2006
Division for Planetary Sciences meeting, October 2006
Division for Planetary Sciences meeting, September 2005
European Geosciences Union Meeting, May 2005
Division for Planetary Sciences meeting, November 2001
American Geophysical Union, December 2001
NASA Space Science Update (press conference), November 1999
American Geophysical Union, December 1999
American Geophysical Union, December 1996
American Geophysical Union, May 2000
Division for Planetary Sciences meeting, October 2000

Selected Websites:

“Women at JPL” website <https://women.jpl.nasa.gov/#episodes-lopes-1>
NASA Solar System Exploration: <https://solarsystem.nasa.gov/people/119/rosaly-lopes/>
A Conversation with Rosaly Lopes: <https://www.jpl.nasa.gov/women/profile.html#lopes>
Planetary Society, Mars volcanoes: <http://www.youtube.com/watch?v=nAtsRehiE7E>
Planetary Society profile: <http://www.planetary.org/connect/our-experts/profiles/rosaly-lopes.html>

Explore Alliance Ambassadors: <https://explorescientificusa.com/pages/explore-alliance-ambassadors-dr-rosaly-m-c-lobes>

Volcano World: <http://volcanoworld.wordpress.com/2011/12/19/rosaly-lobes/>

MAIN PUBLICATIONS:

Web of Science Researcher ID : D-1608-2016

ORC ID: 0000-0002-7928-3167

Profile URL (for h-index in Web of Science, does not include all publications):

<https://publons.com/researcher/2299330/rosaly-mc-lobes>

<http://www.researcherid.com/rid/D-1608-2016>

<http://www.orcid.org/0000-0002-7928-3167>

h-index: 43

1. Books:

Lopes, R. and T.K. Gregg (Eds): *Volcanic Worlds: Exploring the Solar System Volcanoes*. Foreword by Sally Ride. Praxis Publishing Company (Springer-Verlag, 2004). Undergraduate-level book reviewing volcanism in the Solar System in terms of bodies (e.g. Moon, Venus, Io) and processes (e.g. cryovolcanism, volcano/ice interactions). Authors of individual chapters are Rosaly Lopes, Tracy Gregg, Ellen Stofan, Joy Crisp, Susan Sakimoto, Mary Chapman, Gudrun Larsen, Kathy Cashman, Susan Kieffer, Lisa Gaddis, and Louise Prockter.

Lopes, R.: *The Volcano Adventure Guide*. Cambridge University Press (2005). A popular-level book about volcanoes on Earth and how best to visit and learn about them. The book includes an introduction to volcanology. (Portuguese translation by Oficina do Texto, 2008).

Lopes, R. and J.R. Spencer (Eds): *Io After Galileo*. Praxis Publishing Company (Springer-Verlag, 2007). Research-level book on Io focusing on results from the Galileo mission. Chapters range from formation of Io to surface, atmosphere, and torus. Authors of individual chapters include Bill McKinnon, Bill Moore, Gerry Schubert, Fran Bagenal, Robert Carlson, Nick Schneider, and Emmanuel Lellouch.

Lopes, R. and M. Carroll: *Alien Volcanoes*. Foreword by Arthur C. Clarke. John Hopkins University Press, 2008. Popular-level book about volcanoes on Earth and in the Solar System.

Lopes, R. *Volcanoes*. OneWorld Publications, Oxford, England, 2011. Undergraduate-level book about volcanism on Earth and the solar system.

Lopes, R. and J. Adams. *Volcanoes: Bolinda Beginner's Guides*. Abridged audio edition of *Volcanoes*. Bolinda Publishing Pty Ltd, 2012.

Fagents, S.A., T.K.P. Gregg, and R.M.C. Lopes (Editors). *Modeling Volcanic Processes: The Physics and Mathematics of Volcanism*. Cambridge University Press, 2013, 421pp. Graduate-level book on physical volcanology.

Carroll, M., and R. Lopes (Editors). *Alien Seas*. Foreword by James Cameron. Springer Publishing Co., 2013. Popular-level book about the many "seas" in the solar system, from seas of congealed lava on the Moon to sand seas and methane seas on Saturn's moon Titan.

Carroll, M. and R. Lopes. *Antarctica: Earth's Own Ice World*. Comparisons of Antarctica geology with that of planetary worlds, with a focus on Mount Erebus. Springer Publishing Co., 2018.

Gregg, T.K.P., Lopes, R.M.C., and Fagents, S.A. (Eds): *Planetary Volcanism across the Solar System*. Comparative Planetology Series, volume 1 (series editors P.K. Byrne, R.M.C. Lopes, and M.A. Siegler). Elsevier, in press.

2. Refereed Publications

2021:

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142. Crosta, A.P., E.A. Silber, R.M.C. Lopes, B.C. Johnson, E. Bjornes, M. J. Malaska, S. D. Vance, C. Sotin, A. Solomonidou, and J. Soderblom. Modeling the Formation of Menrva Impact Crater on Titan: Implications for Habitability. *Icarus*, in press, <https://doi.org/10.1016/j.icarus.2021.114679>
141. S. M. MacKenzie, S. P.D. Birch, S. Horst, C. Sotin, E. Barth, J. M. Lora, M. G. Trainer, P. Corlies, M. J. Malaska, E. Sciamma-O'Brien, A. E. Thelen, E. Turtle, J. Radebaugh, J. Hanley, A. Solomonidou, C. Newmann, L. Regoli, S. Rodriguez, B. Seignovert, A. G. Hayes, B. Journaux, J. Steckloff, D. Nna-Mvondo, T. Cornet, M. Palmer, R.M.C. Lopes, S. Vinatier, R. Lorenz, C. Nixon, E. Czapinski, J. W. Barnes, E. Sittler, and A. Coates (2021). Titan: Earth-like on the Outside, Ocean World on the Inside. *Plan. Sci. Journ.*, 2:112 (13pp), <https://doi.org/10.3847/PSJ/abf7c9>
140. Miller, J.W., S.P.D. Birch, A.G. Hayes, M.J. Malaska, R.M.C. Lopes, A.M. Schoenfeld, P.M. Corlies, D.M. Burr, T.G. Farr, and J.T. Perron (2021). Fluvial Features on Titan and Earth: Lessons from Planform Images in Low-Resolution SAR. *Plan. Sci. Journ.* 2:142 (22pp), <https://doi.org/10.3847/PSJ/ac0245>

139. Schoenfeld, A.M., R. M.C. Lopes, M. J. Malaska, A. Solomonidou, D. A. Williams, S. P. D. Birch, A. G. Hayes, P. Corlies, A. Le Gall, M. A. Janssen, S. Le Mouélic, E. Turtle, M. Florence, T. Verlander. Geomorphological map of the South Belet Region of Titan. *Icarus*, <https://doi.org/10.1016/j.icarus.2021.114516>
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137. Tosi, F., A. Mura, R.M.C. Lopes, G. Filacchione, M. Ciarniello, F. Zambon, A. Adriani, S.J. Bolton, S.M. Brooks, R. Noschese, R. Sordini, D. Turrini, F. Altieri, A. Cicchetti, D. Grassi, C.J. Hansen, A. Migliorini, M.L. Moriconi, G. Piccioni, C. Plainaki, G. Sindoni. Mapping Io’s Surface Composition with Juno/JIRAM. *J. Geophys. Res. Planets*, 125, e2020JE006522, <https://doi.org/10.1029/2020JE006522>
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133. Malaska, M.J., Jani Radebaugh, Rosaly M.C. Lopes, Karl L. Mitchell, Tiffany Verlander, Ashley M. Schoenfeld, Meghan M. Florence, Alice Le Gall, Anezina Solomonidou, Alex G. Hayes, Samuel P. D. Birch, Michael A. Janssen, Lauren Schurmeier, Thomas Cornet, Caitlin Ahrens, Thomas G. Farr and the Cassini RADAR Team. Labyrinth Terrain on Titan. *Icarus*, 344 (2020) 113764. <https://doi.org/10.1016/j.icarus.2020.113764>
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